

FIG. 1

CAR	Constructs	Binding Domain	Binding Domain Format	Hinge	Transmembrane Domain	First Intracellular Domain	Second Intracellular Domain	Third Intracellular Domain	Activity
CAR1	CT292	4D5*	VL-VH	CD8	CD8	CD28	4-1BB	CD3z	yes
CAR4	CT298	4D5	VL-VH	Linker	CD8	4-1BB	-	CD3z	low
CAR3	CT299	4D5	VL-VH	IgG4(EQ)	CD8	4-1BB	-	CD3z	yes
CAR2	CT297	FRP5	VH-VL	CD28	CD28	CD28	-	CD3z	no
	CT1094	FRP5	VH-VL	IgG1	CD28	CD28	-	CD3z	yes
	CT1095	FRP5*	VH-VL	IgG1	CD28	CD28	-	CD3z	yes

FIG. 2A
Antigen titration on
solid state

FIG. 2B
Target cell (HCT.116)
number titration

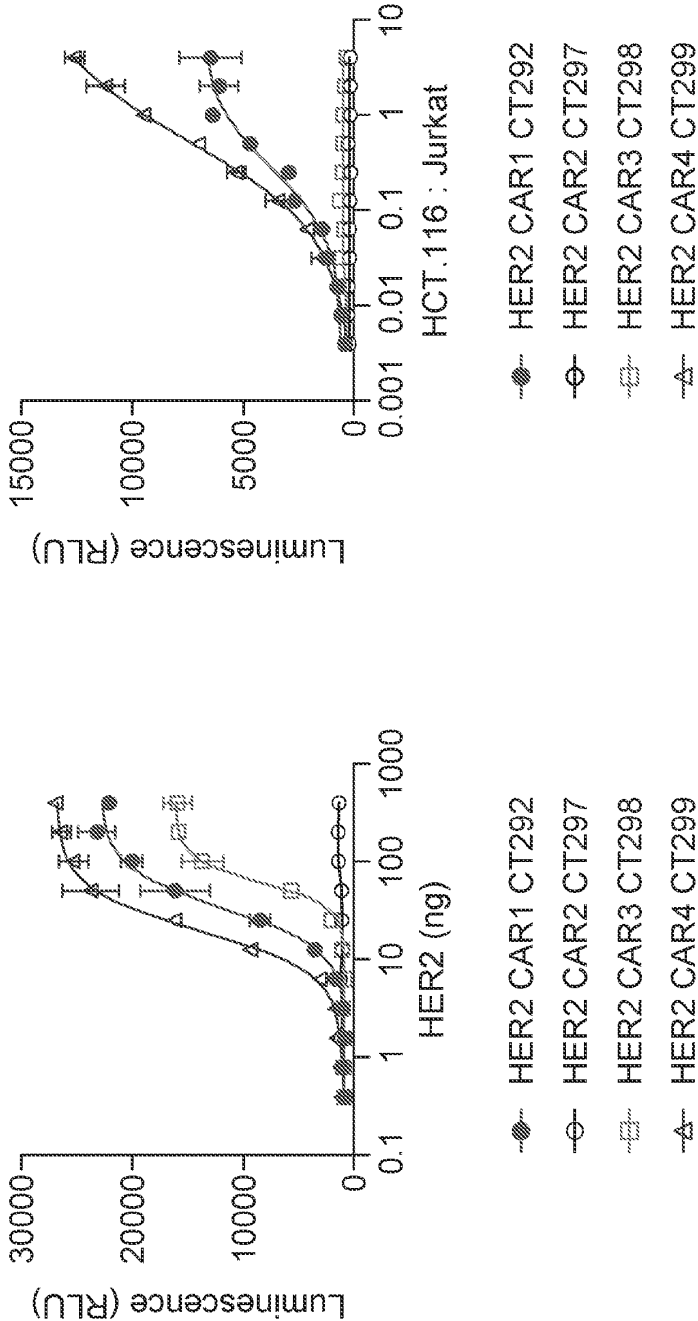


FIG. 2C

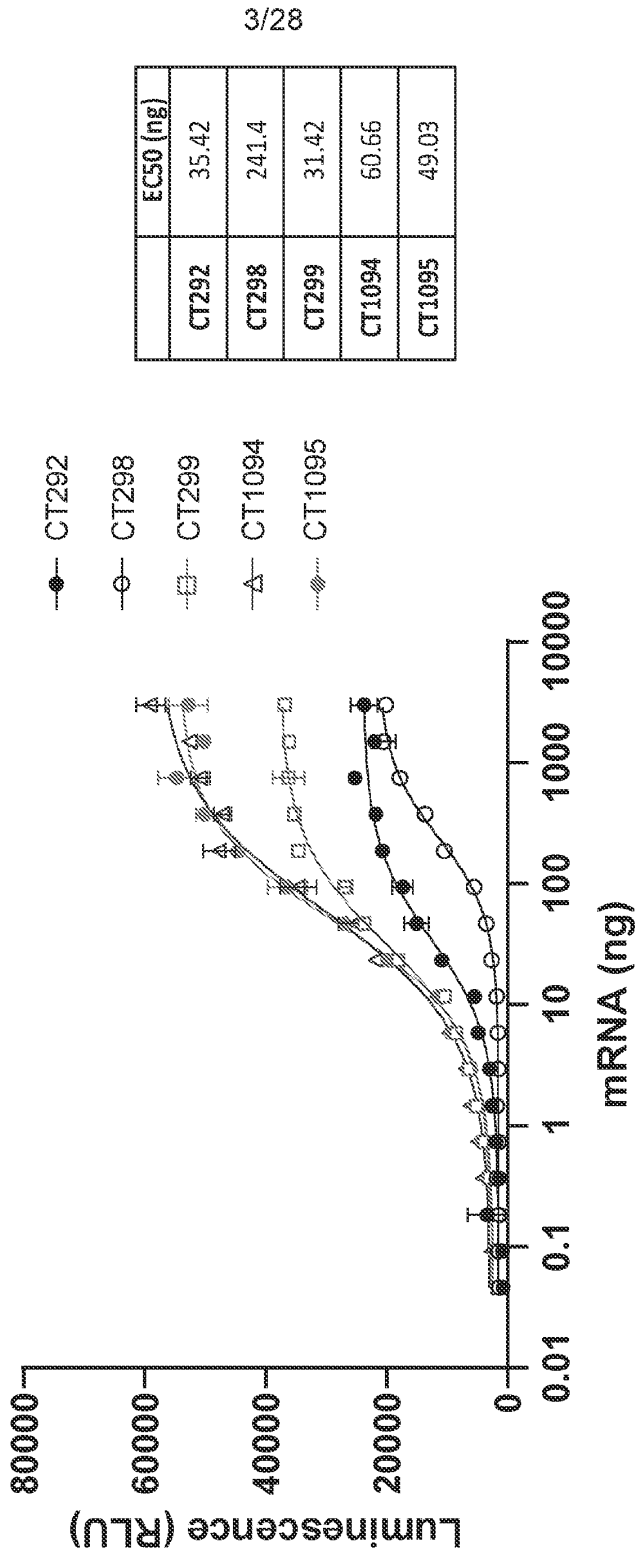


FIG. 3

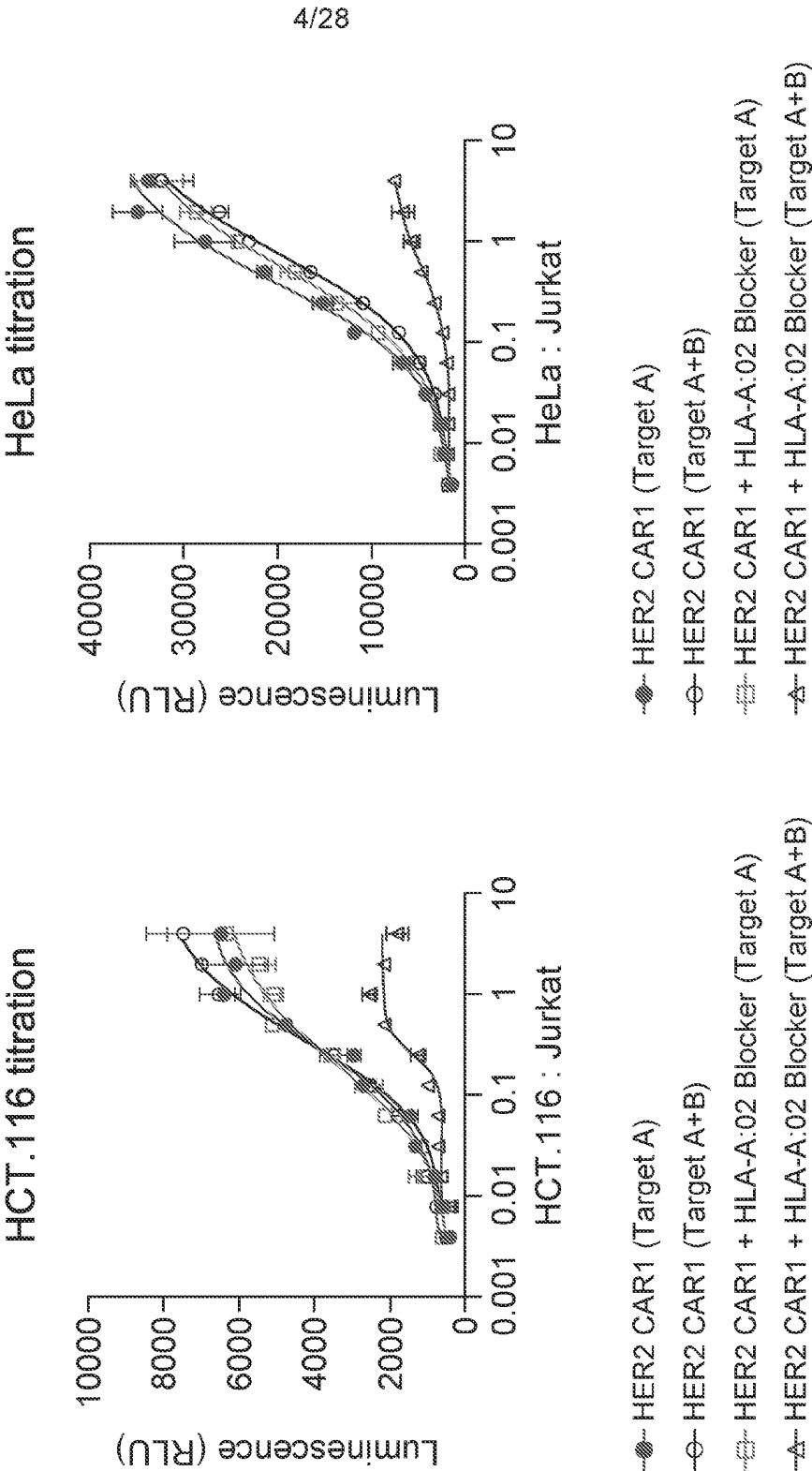
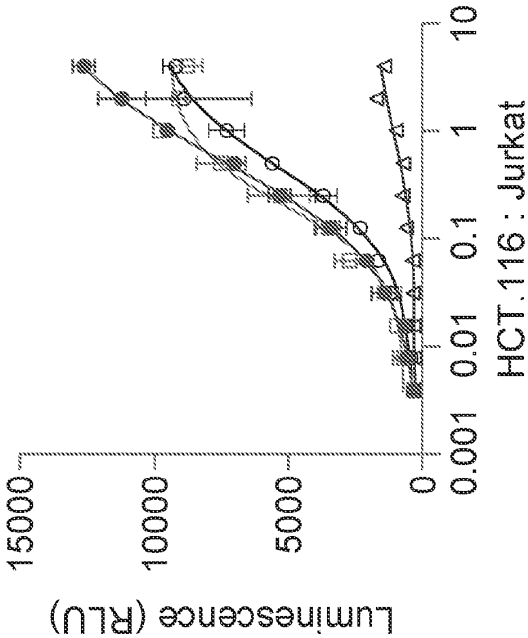


FIG. 4

HCT.116 titration



- HER2 CAR4 (Target A)
- HER2 CAR4 (Target A+B)
- HER2 CAR4 + HLA-A*02 Blocker (Target A)
- △ HER2 CAR4 + HLA-A*02 Blocker (Target A+B)

FIG. 5

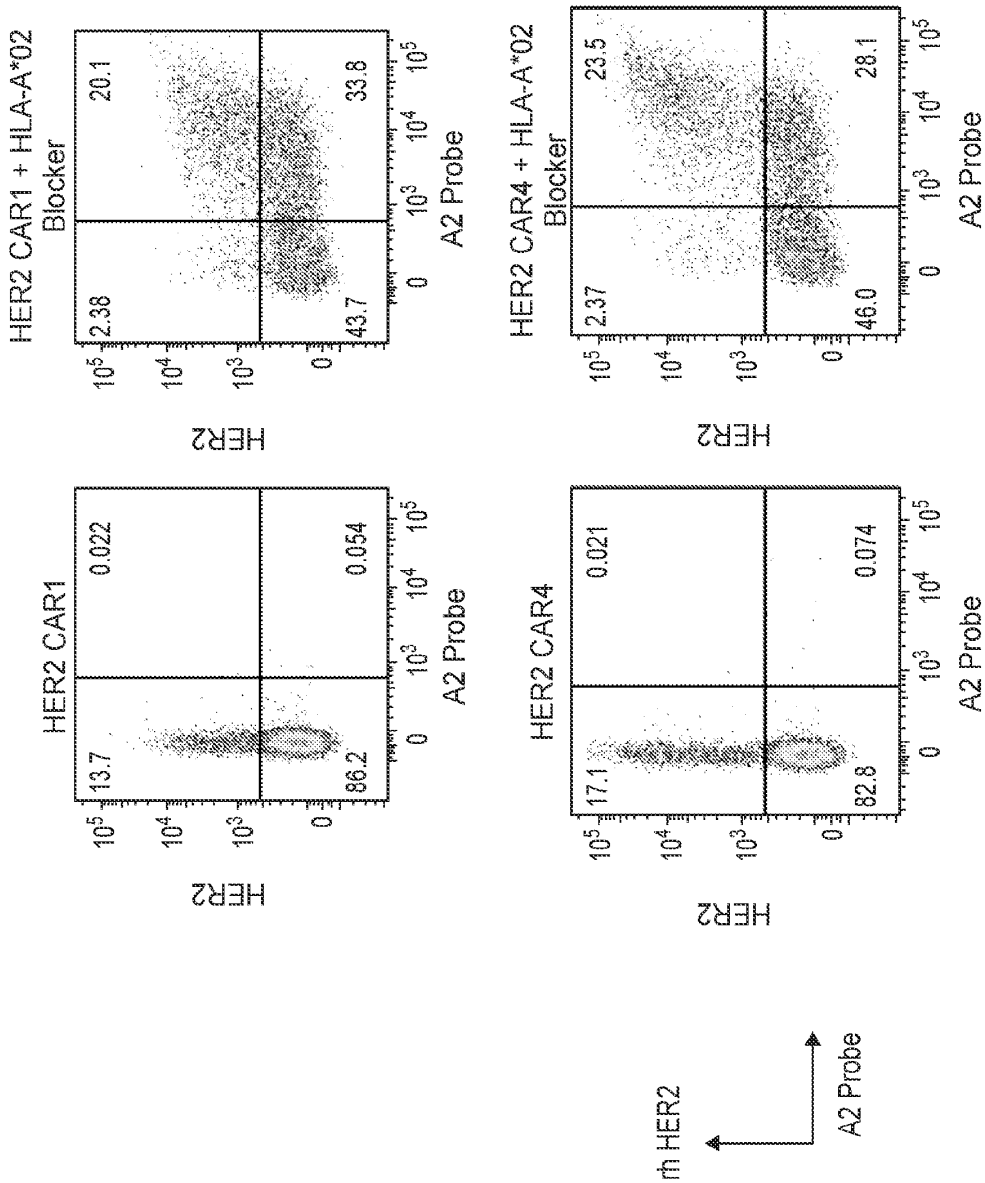


FIG. 6

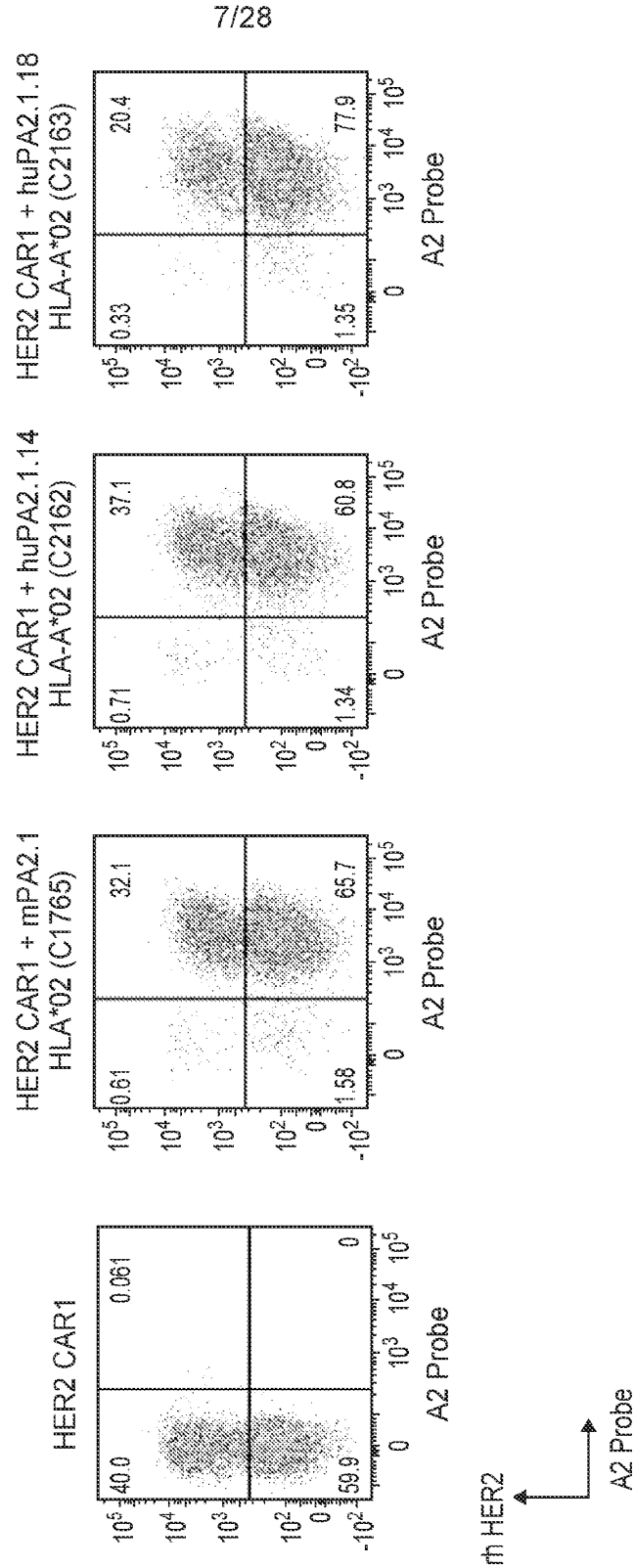


FIG. 7

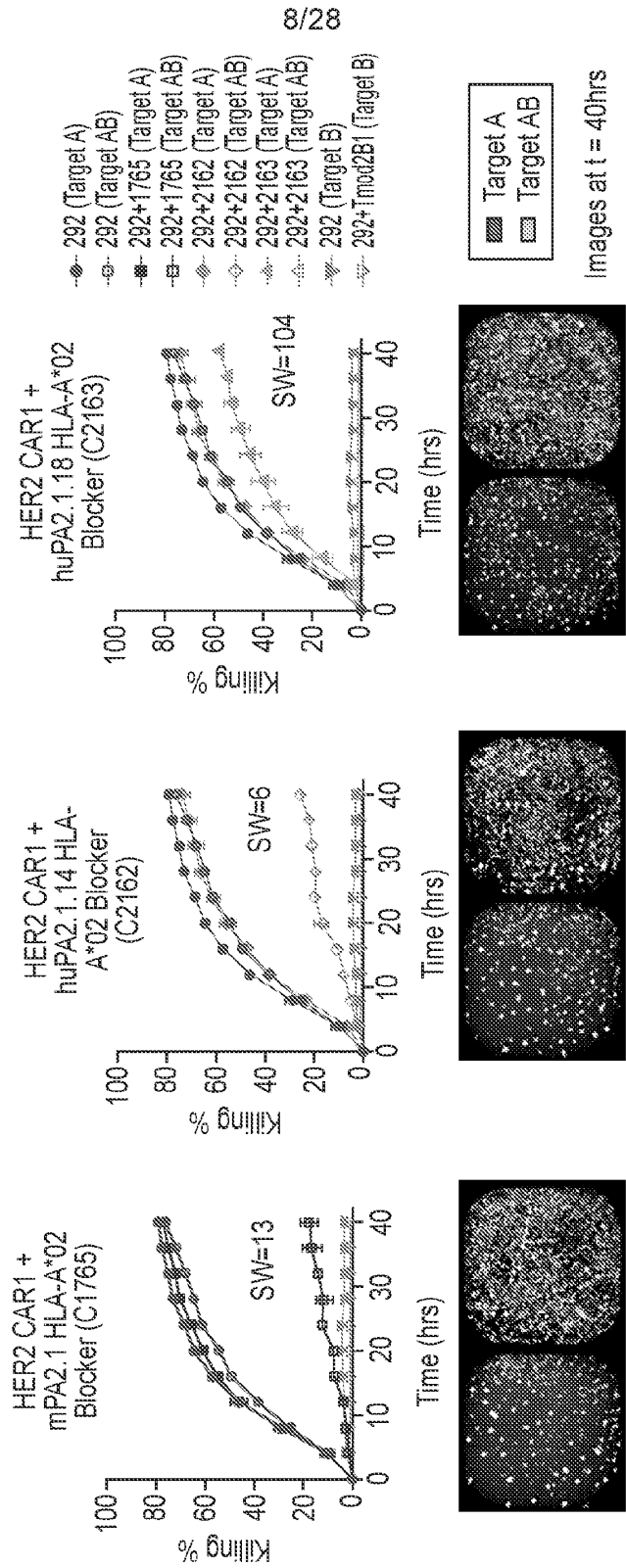


FIG. 8

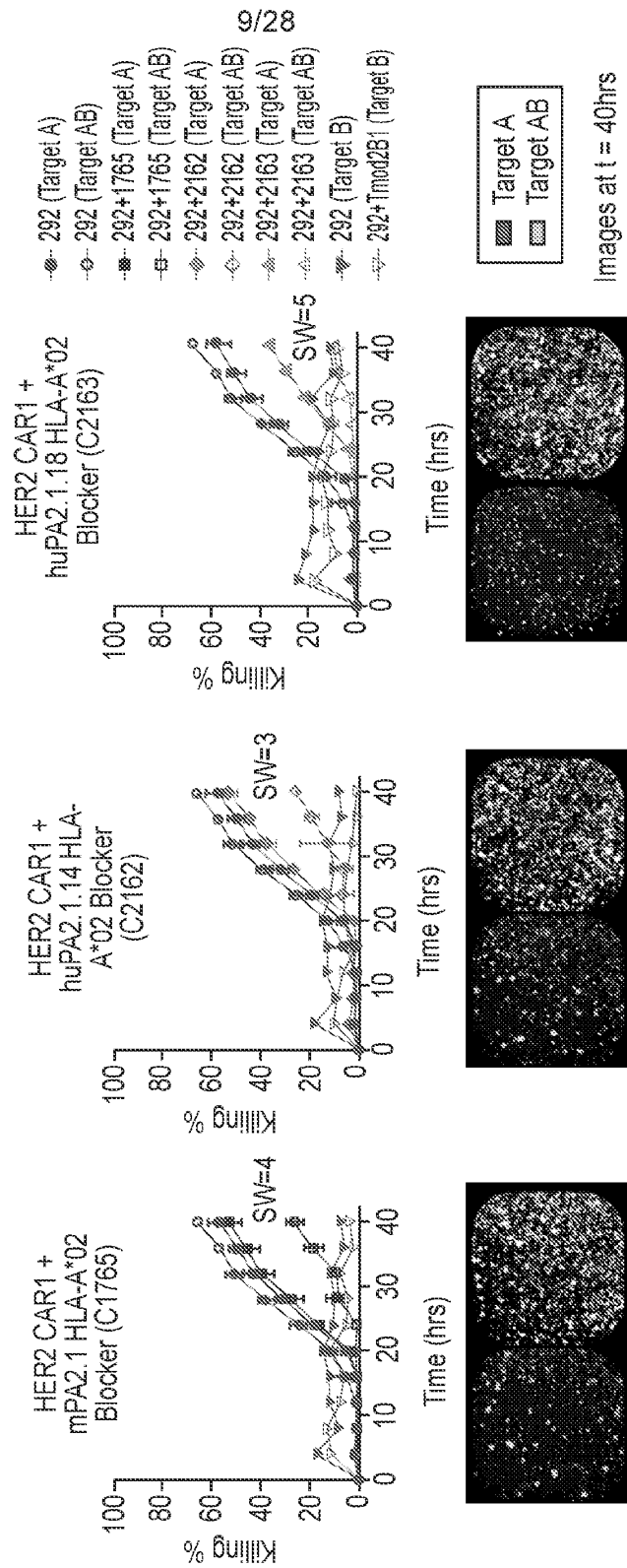
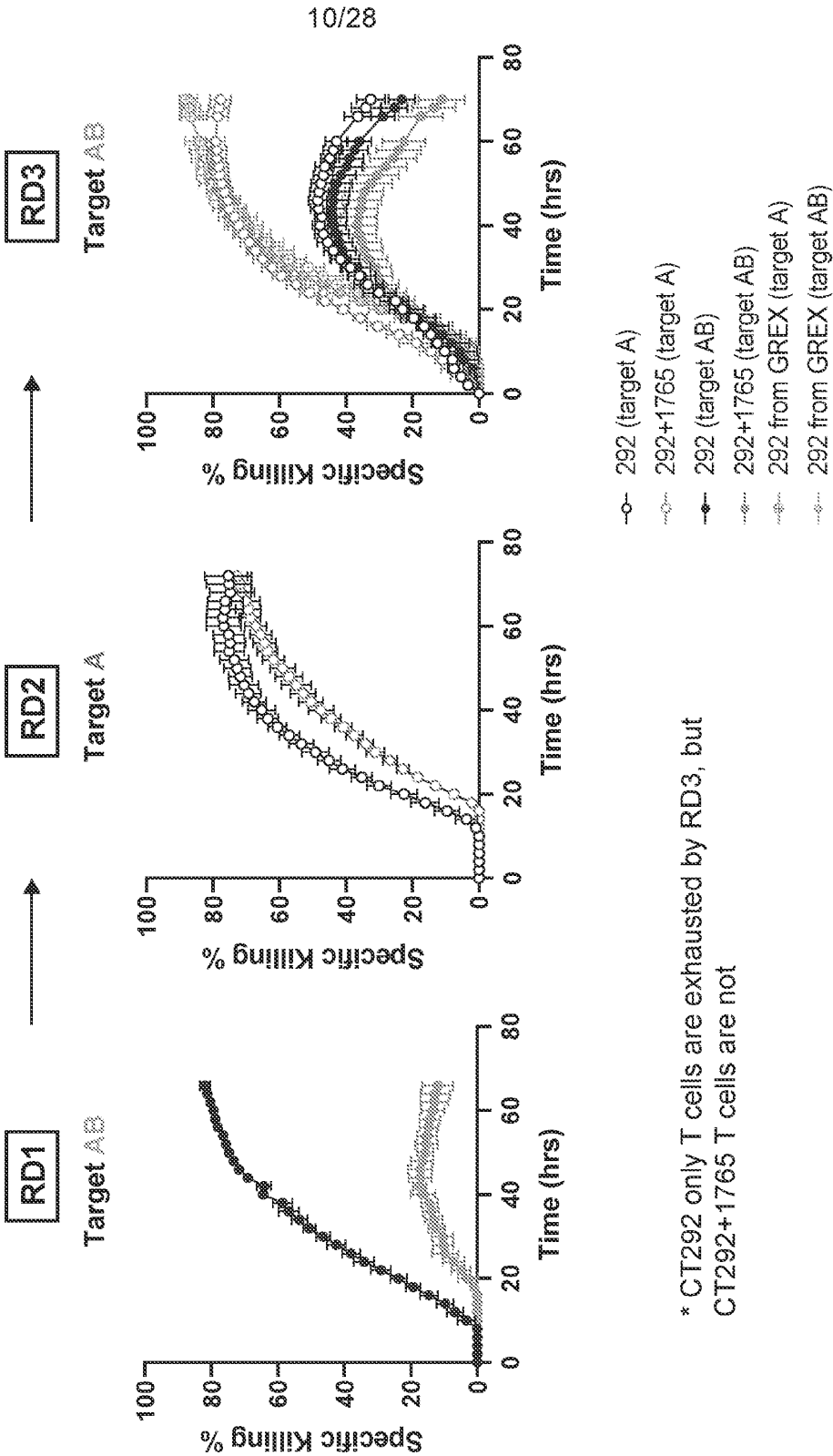


FIG. 9



* CT292 only T cells are exhausted by RD3, but
CT292+1765 T cells are not

11/28

FIG. 10

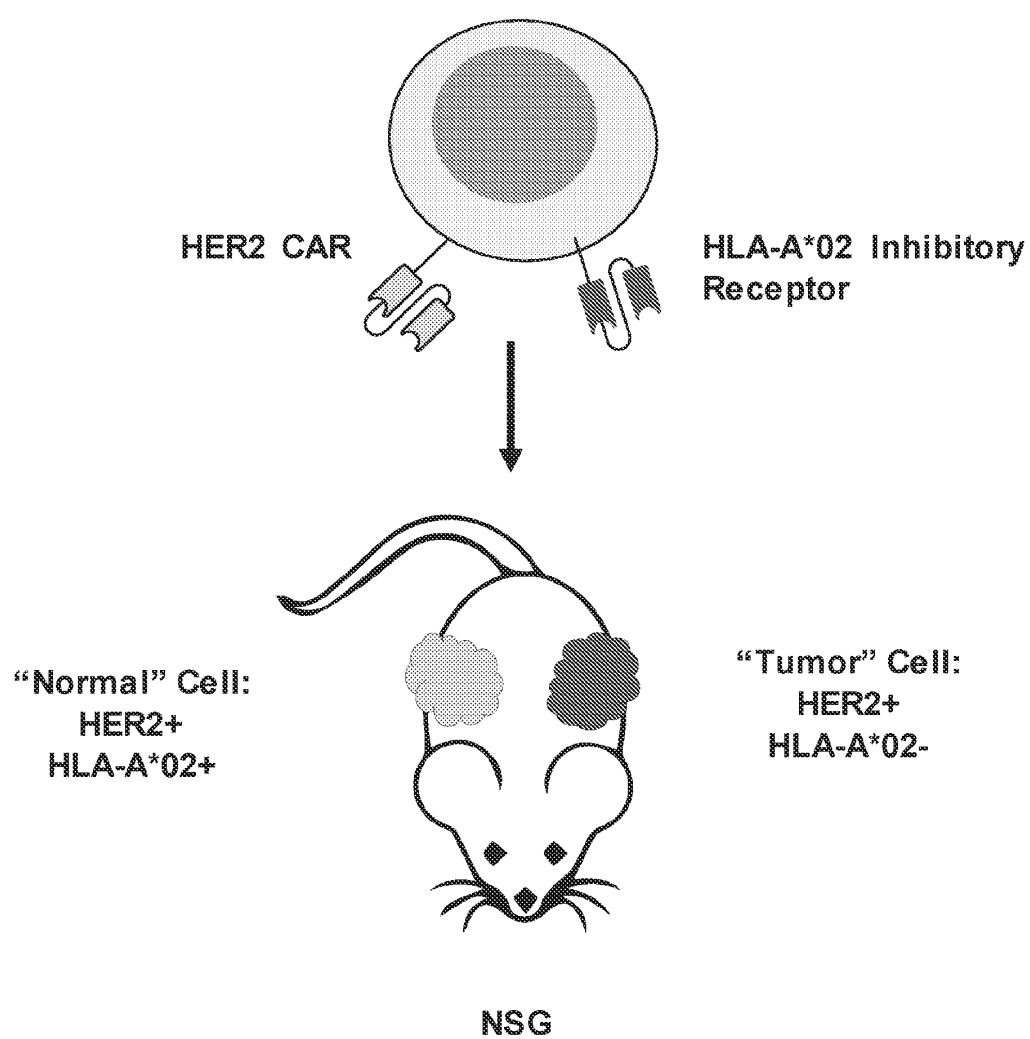


FIG. 11

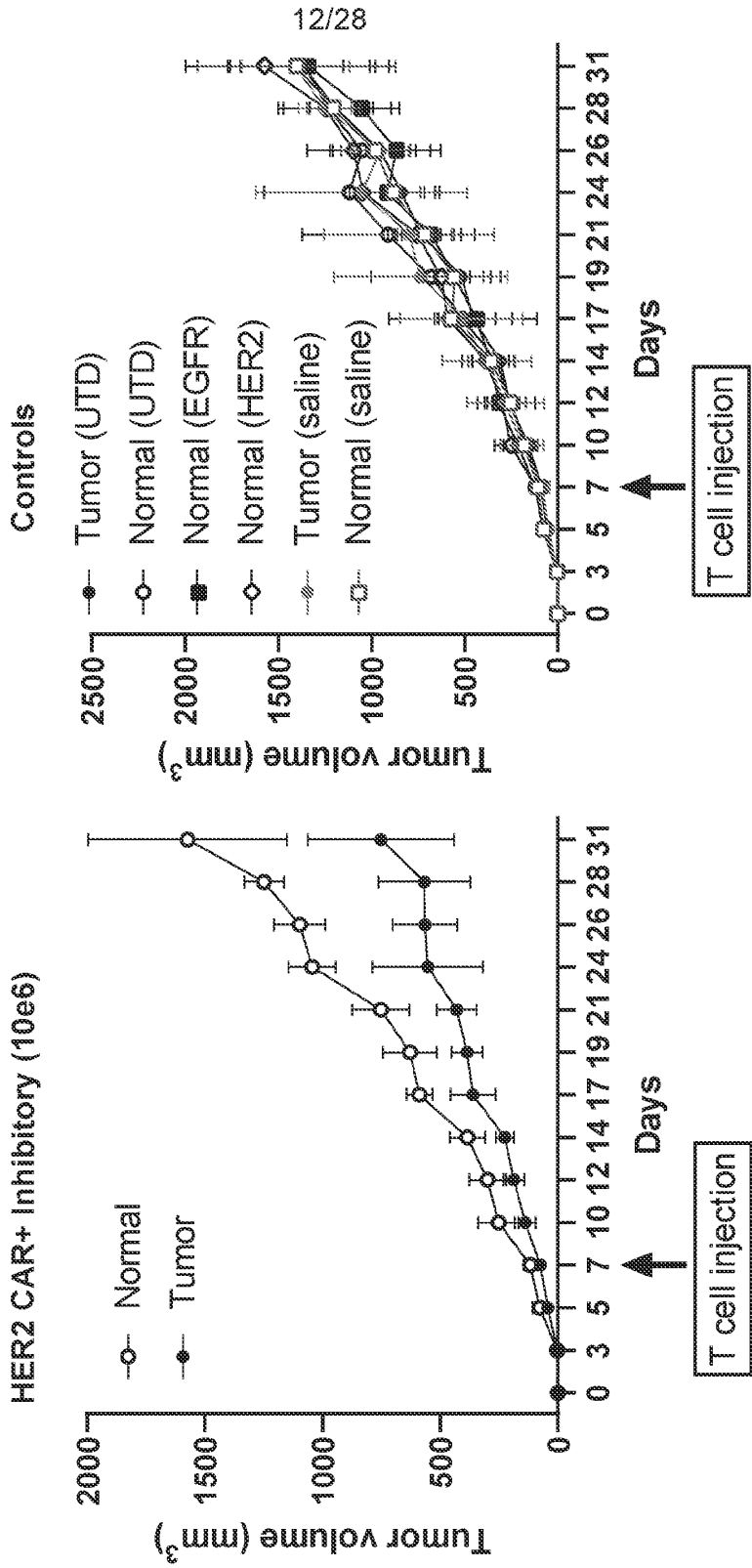


FIG. 12

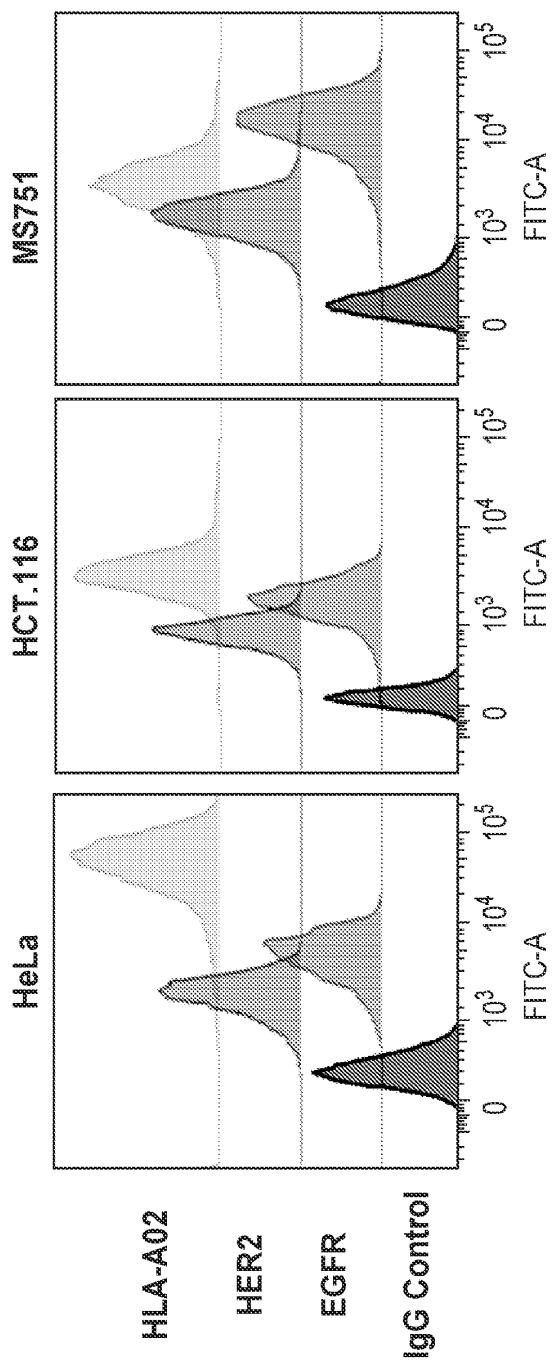


FIG. 13

	HeLa		HCT.116		MS751	
	Antigen density	A:B ratio	Antigen density	A:B ratio	Antigen density	A:B ratio
HLA-A02	842,273		44,173		45,013	
HER2	21,198	1:40	9,517	1:4	19,965	1:2
EGFR	53,080	1:15	22,321	1:2	247,051	5:1

FIG. 15

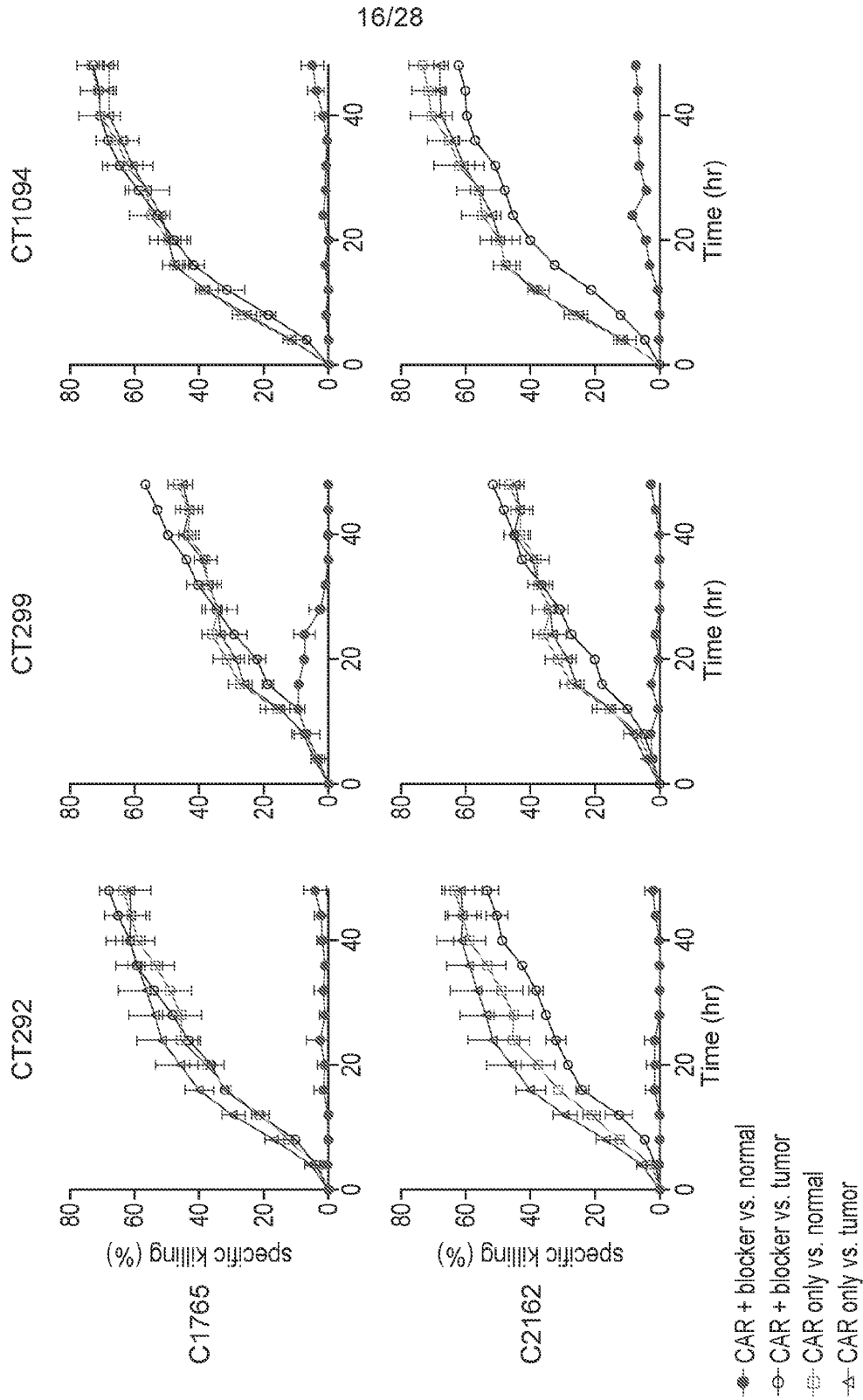


FIG. 16

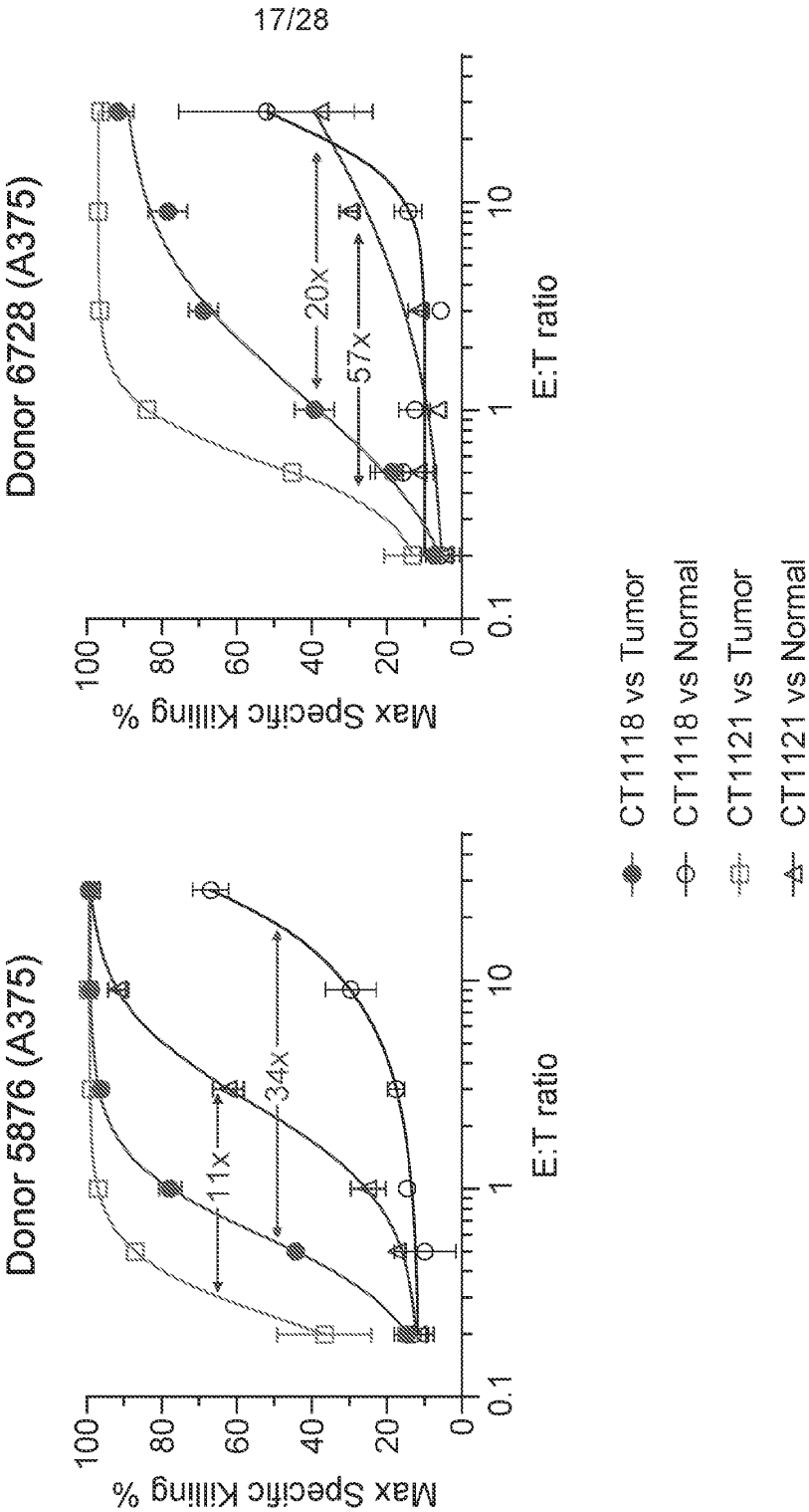
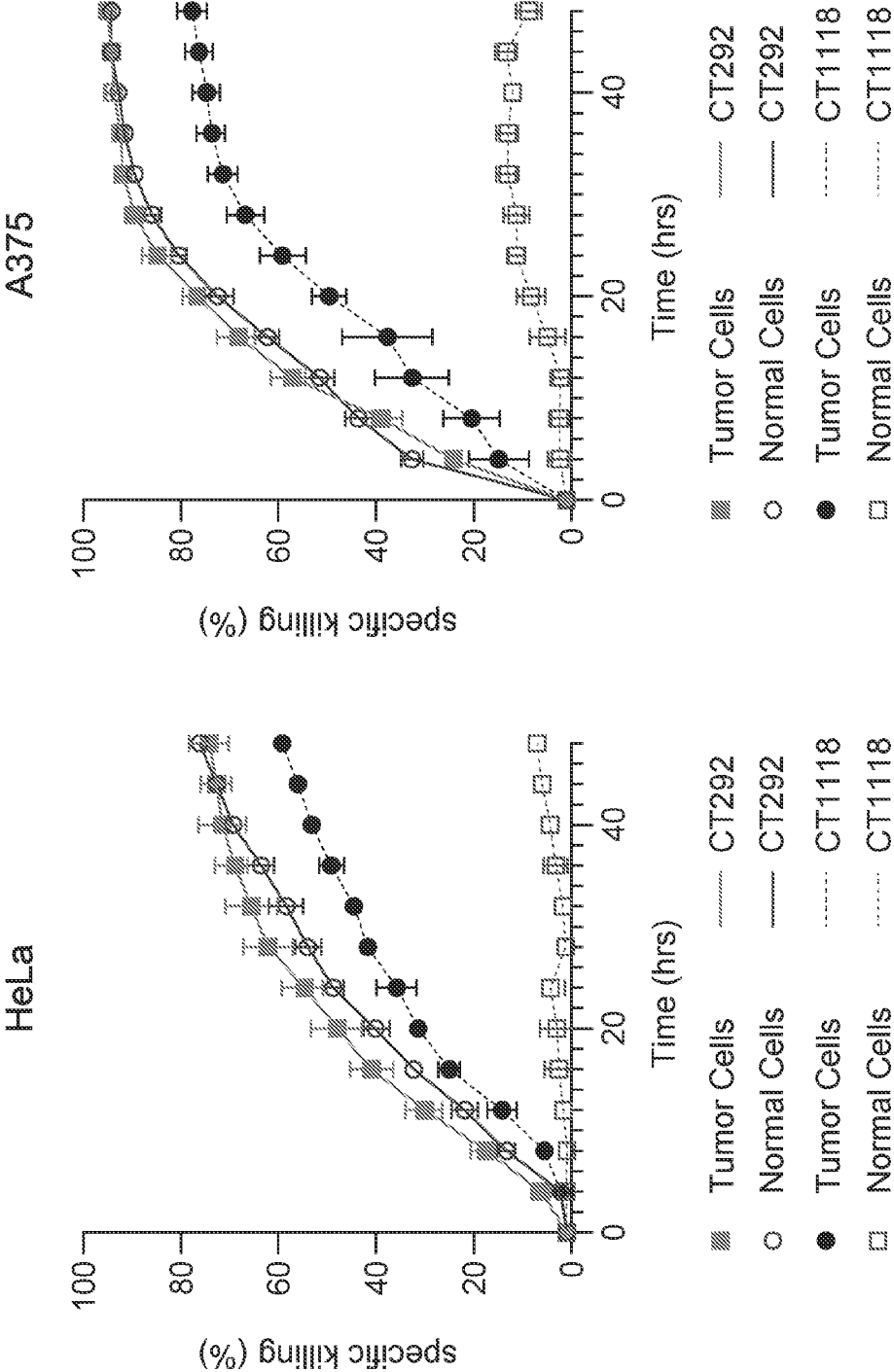


FIG. 17



19/28

FIG. 18

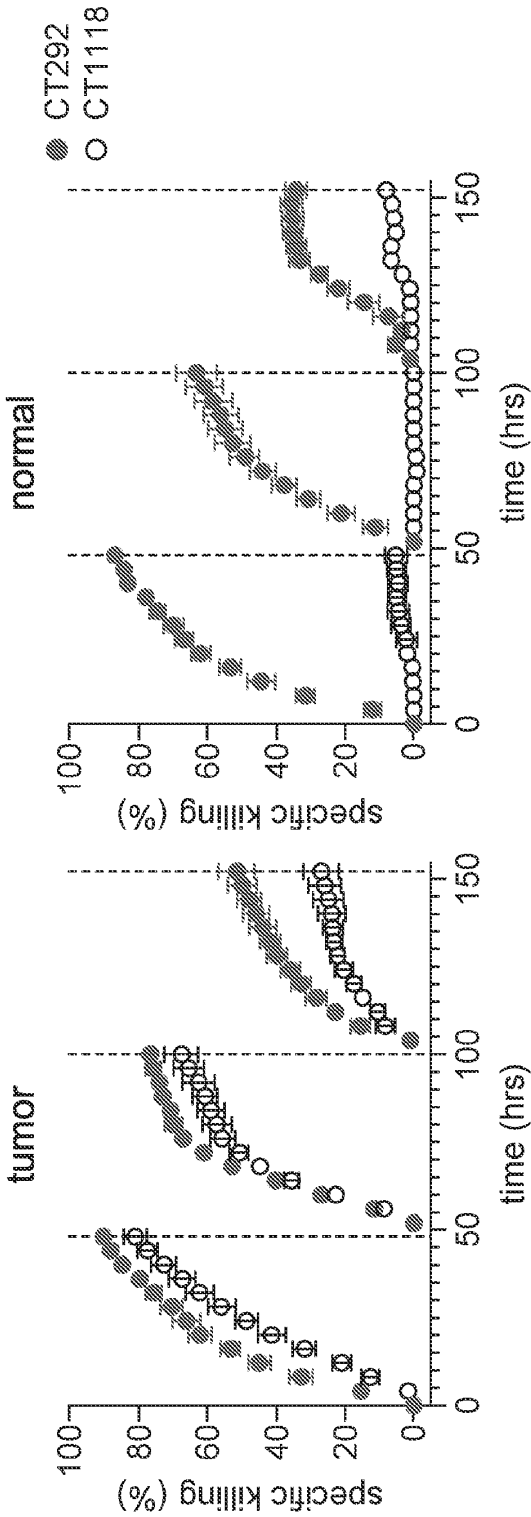


FIG. 19

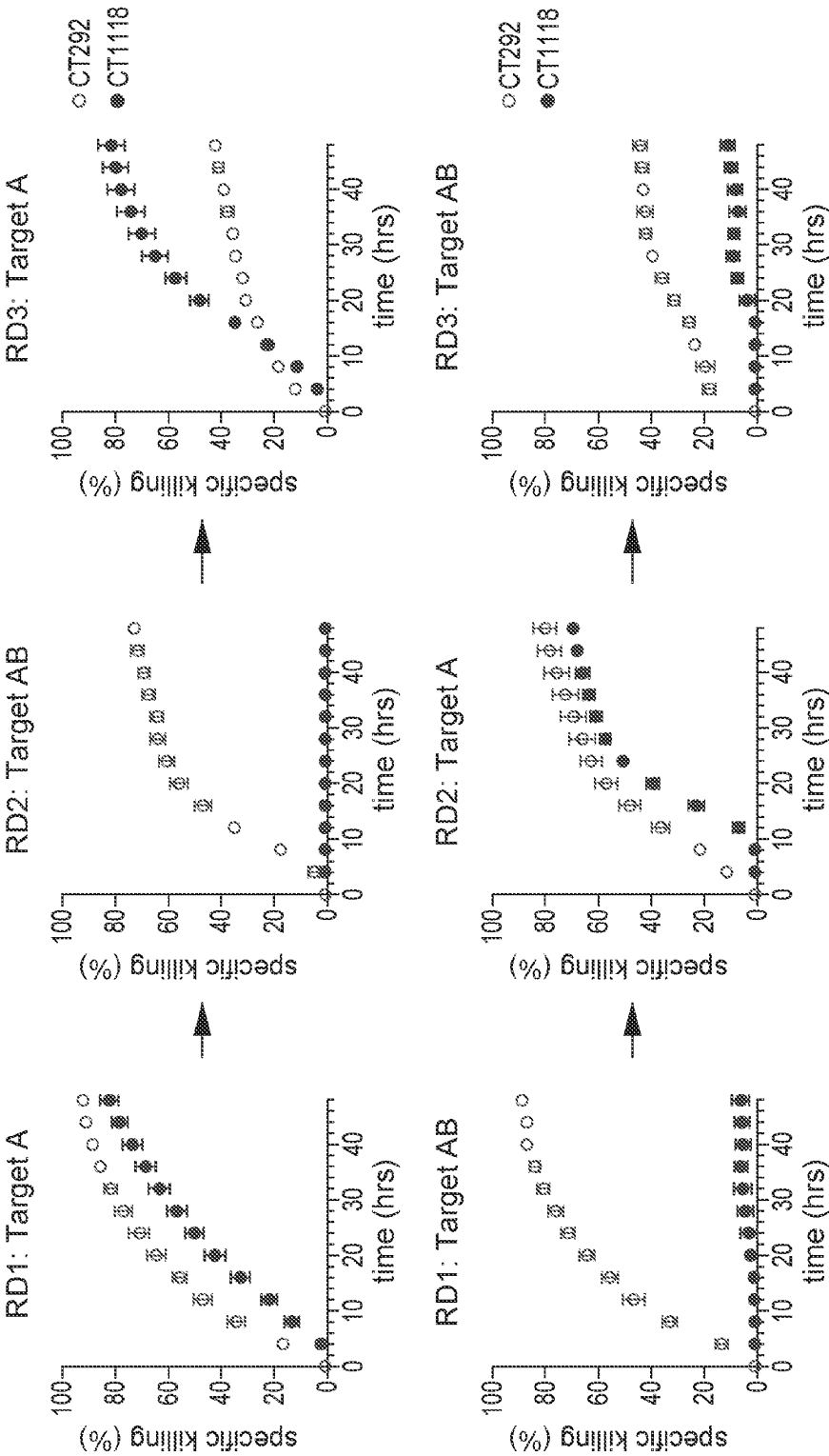


FIG. 20

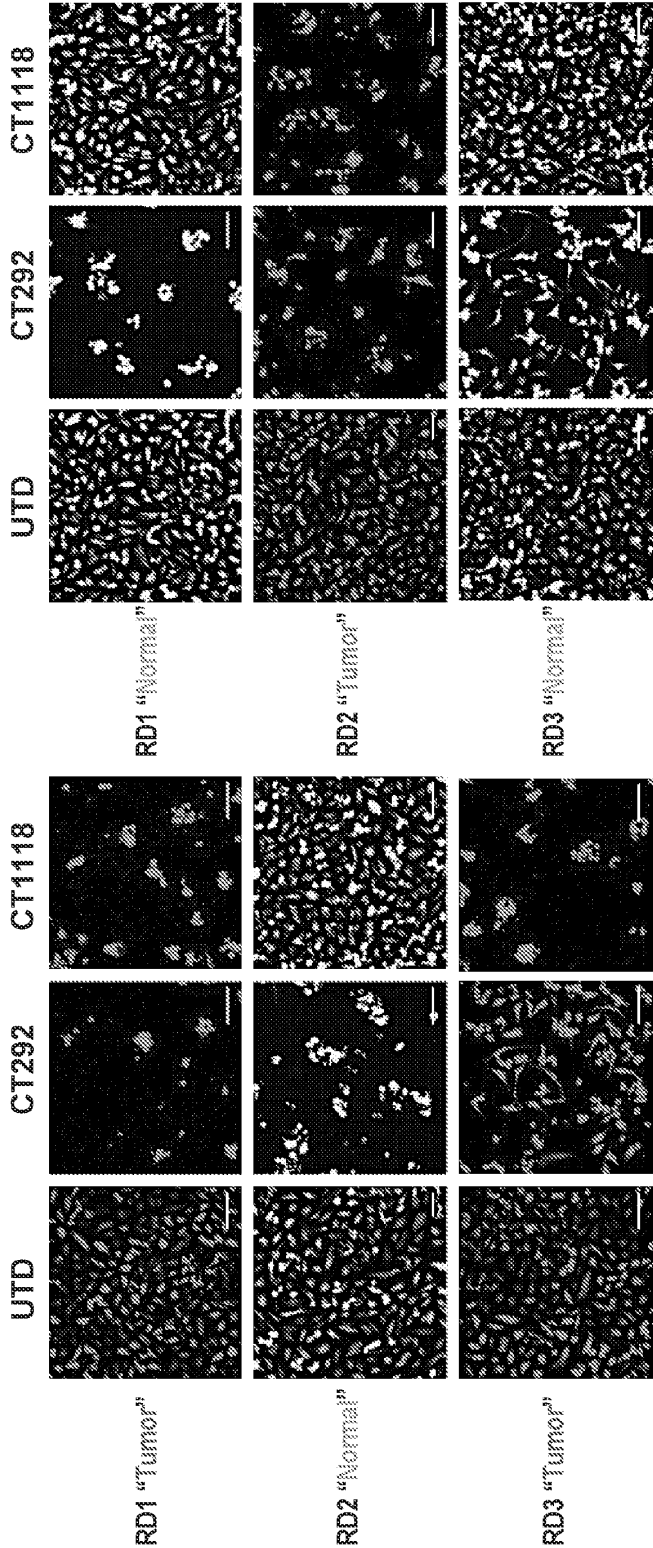
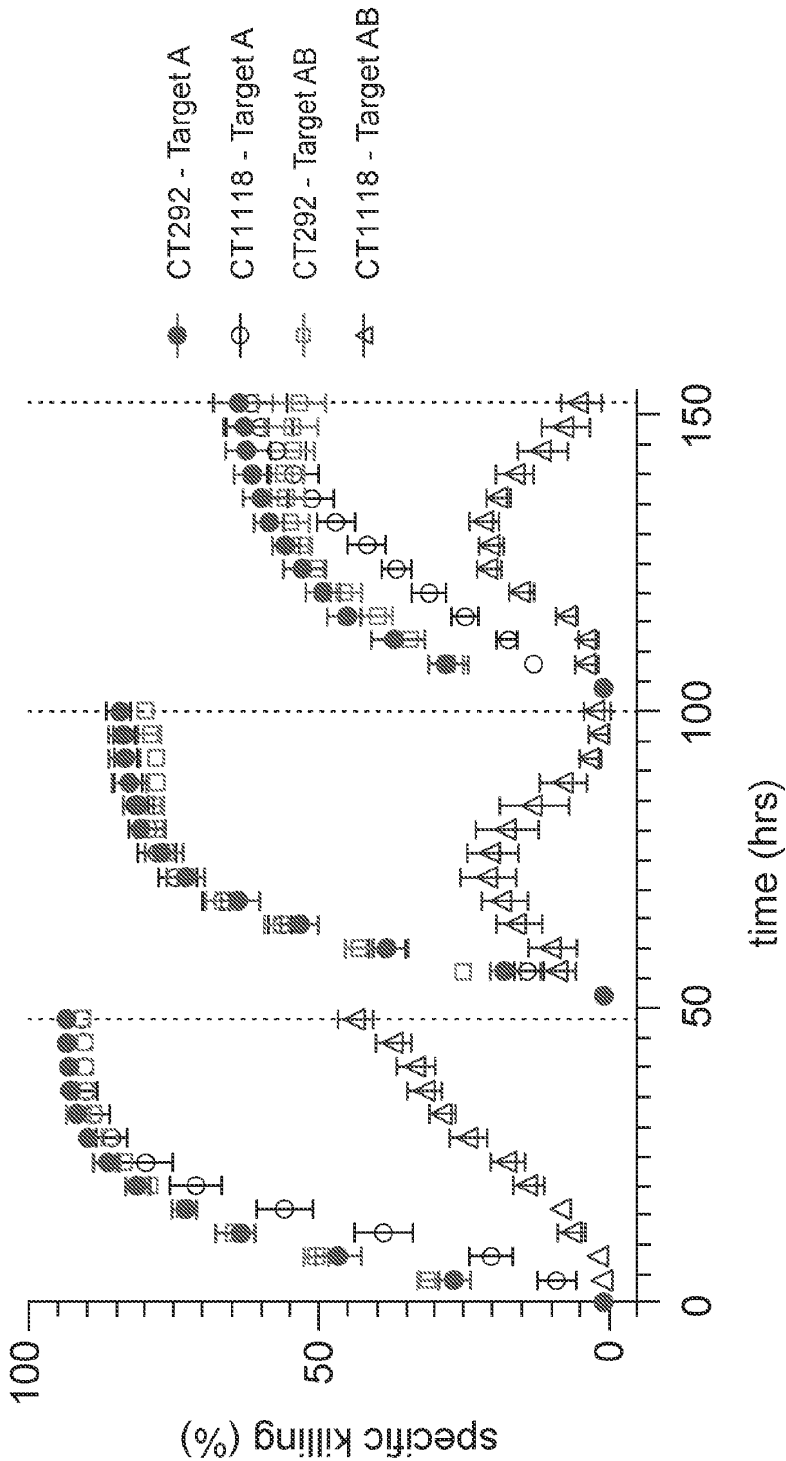


FIG. 21

mixed



23/28

FIG. 22

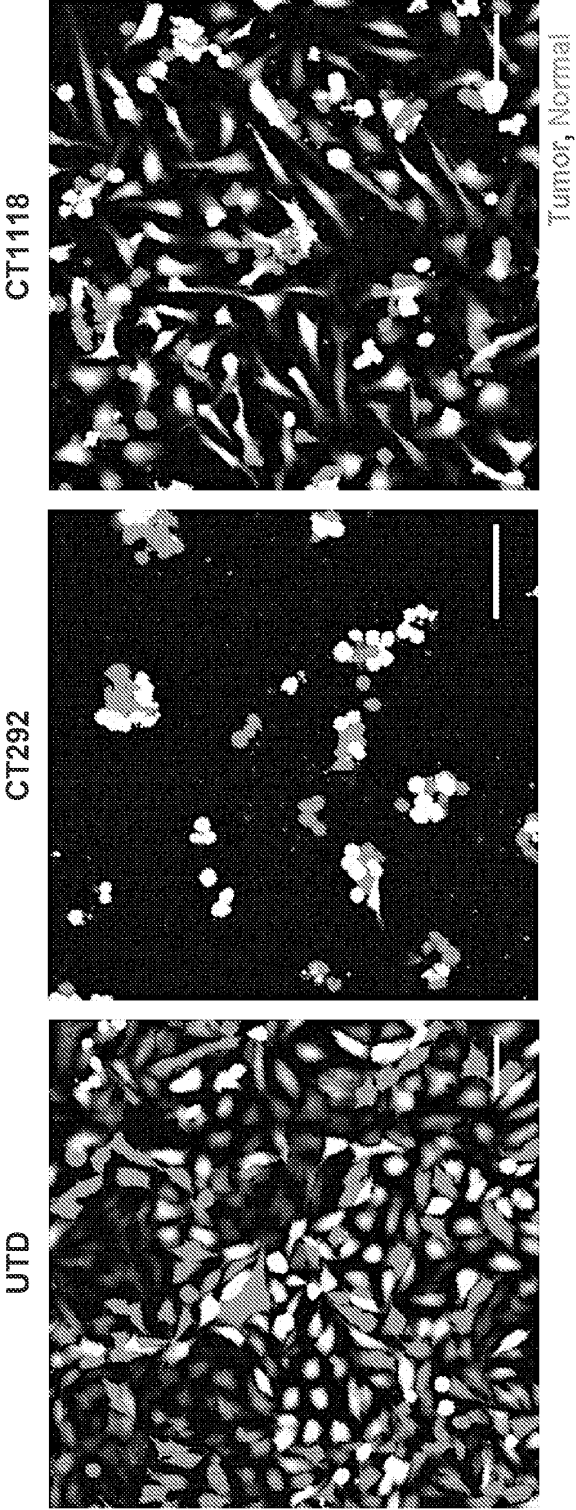
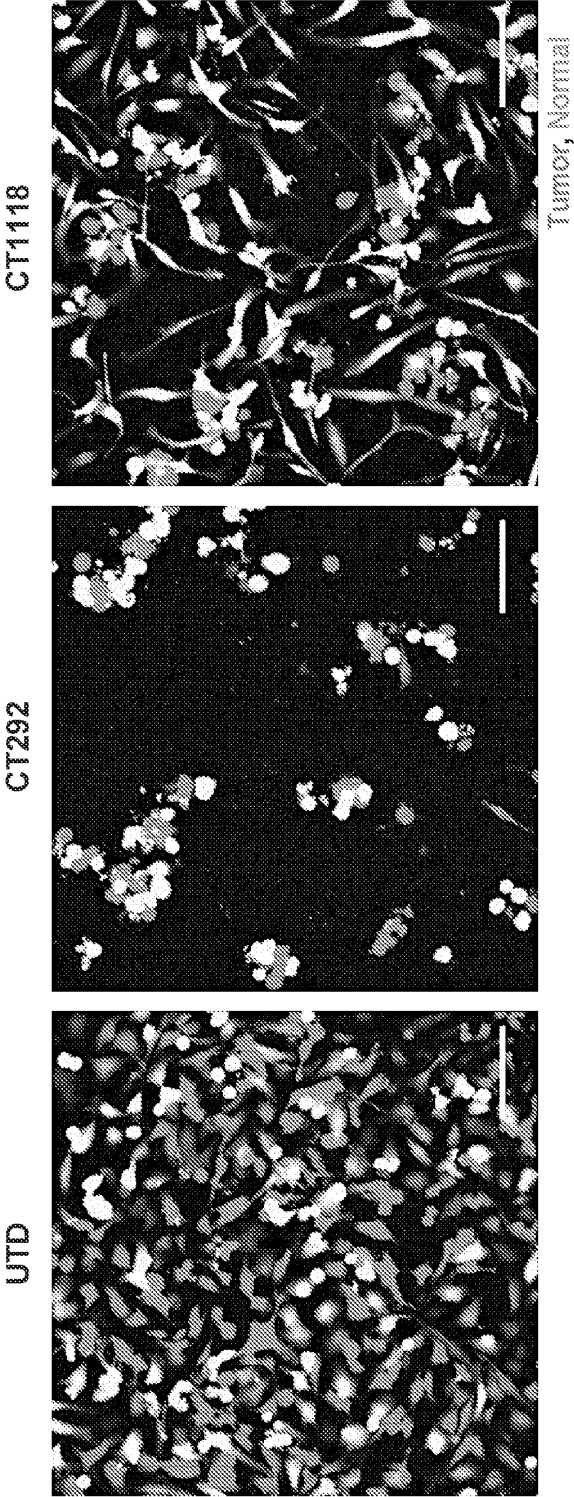


FIG. 23



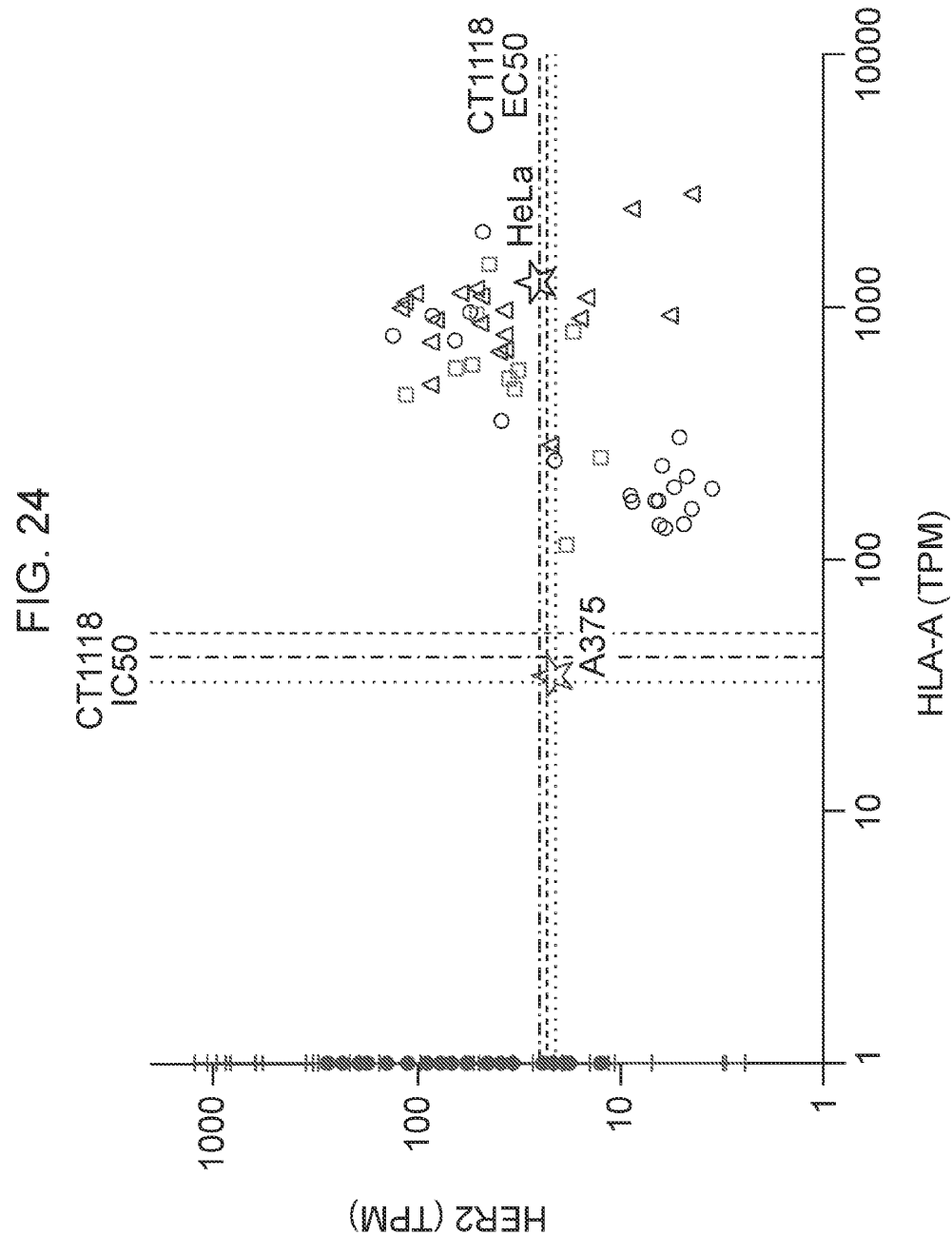
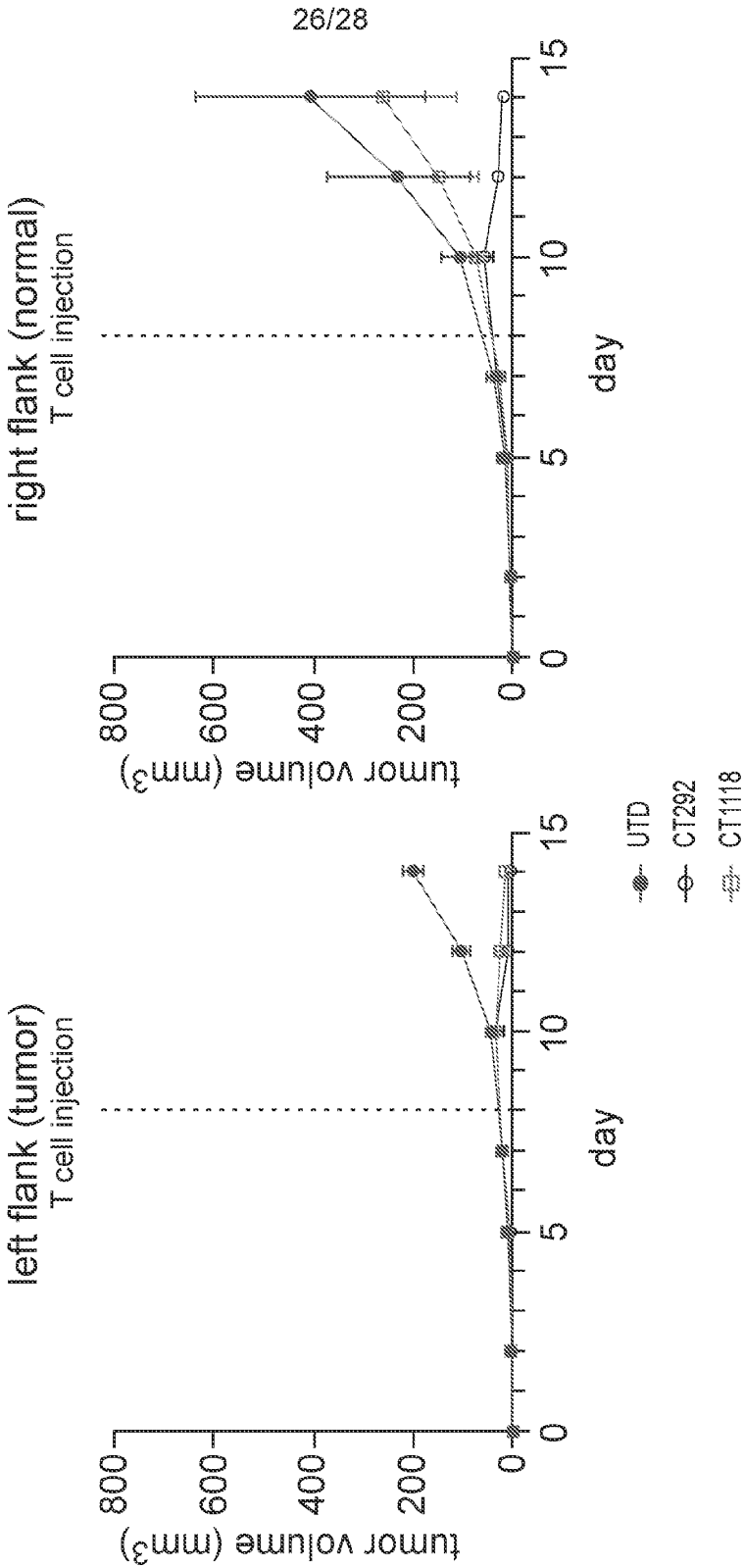


FIG. 25



27/28

FIG. 26A

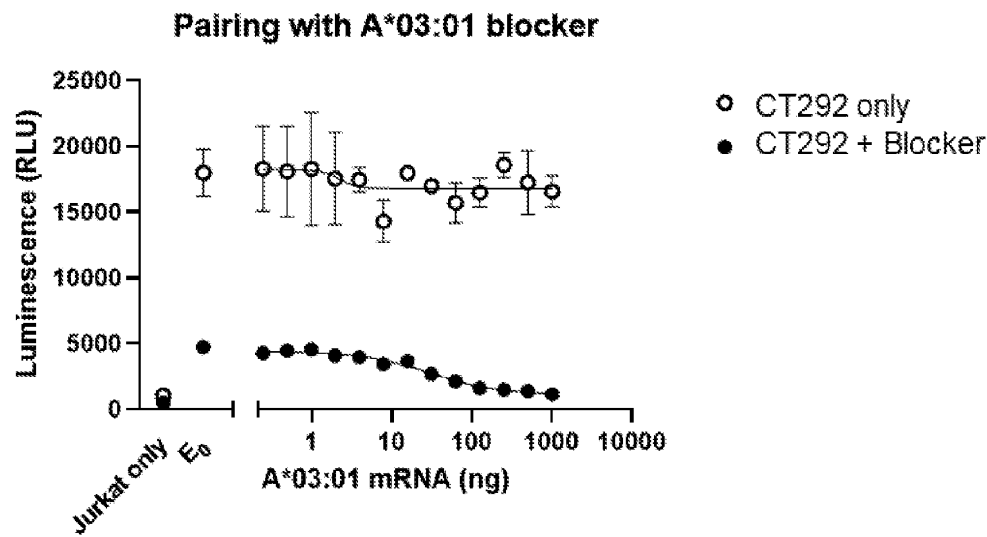


FIG. 26B

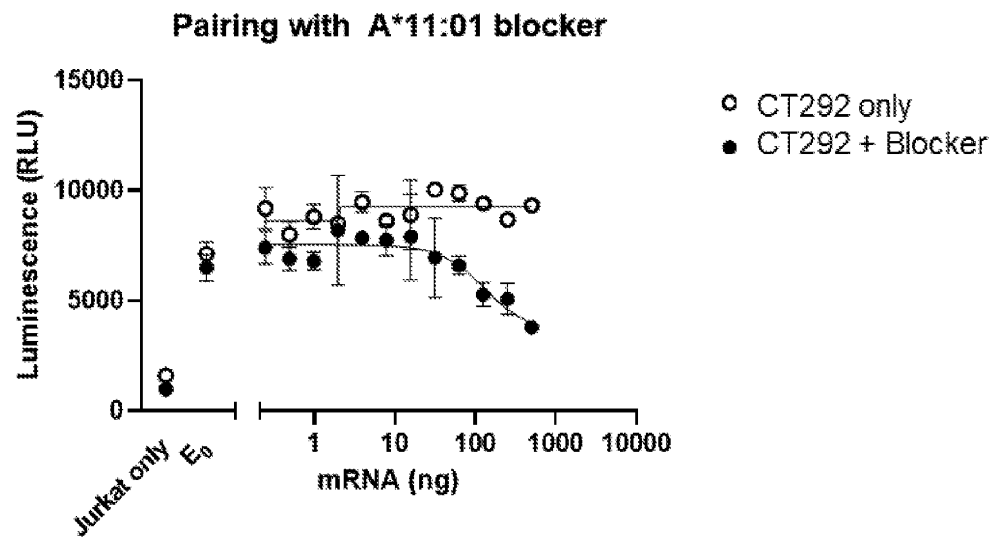


FIG. 26C

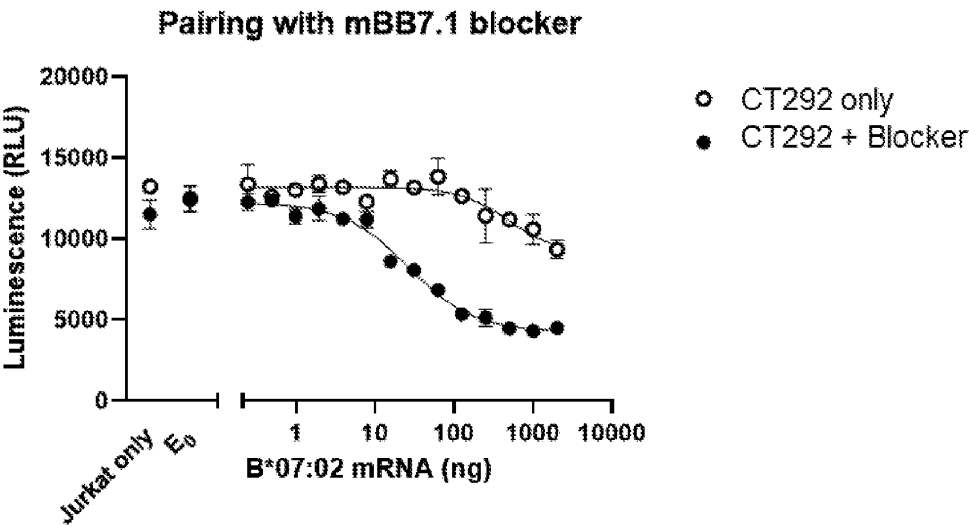


FIG. 27

